

Watershed Watch Network

Mission Statement:

"To foster and develop a sense of stewardship toward local waters that serves to remind or give warning of the health of the watershed."



- Recruit and train citizens to become stewards of a local waterway
- •Offer a program that provides a range of rigor so that virtually everyone can participate at some level.
- •Generate a web-based database of information that can be used by citizens and DEP.

Watershed Watch Network, cont.

- Coordinate Annual Monitoring Summits to report out data and recognize the work of volunteers
- Provide monitoring updates and information through *Watershed Focus* newsletter & via email



- Create a guidance manual for monitors
- Establish stream reach Id numbers using a consistent numbering system
- Establish Internal Advisory Group
- External Volunteer Monitoring Advisory
 Group

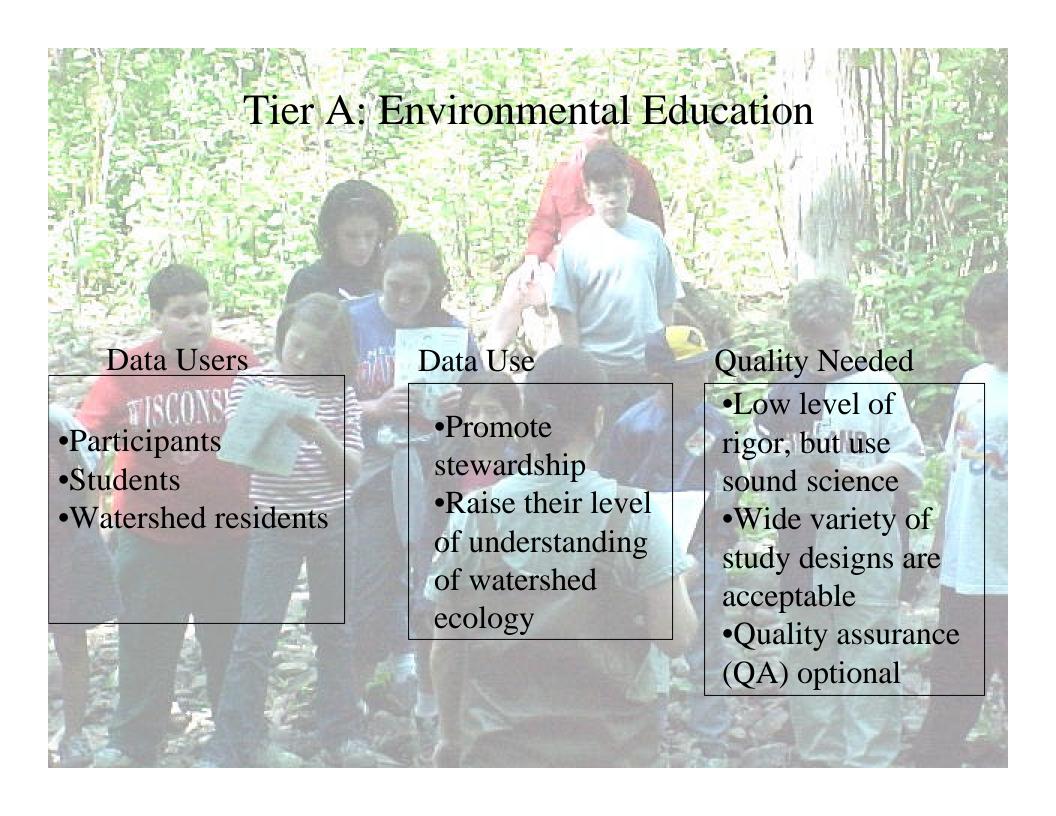
Watershed Watch Network, cont.

 Official recognition/registration of volunteer monitoring programs that complete a DEP training course and submit a QA/QC protocol that is approved by DEP



Options for Involvement

- Purpose A: Environmental Education
- Purpose B: Stewardship
- Purpose C: Community Assessment
- Purpose D: Indicators



Tier B: Stewardship

Data User

- Participants
- •Watershed residents
- Landowners

Local decision makers (optional)

Data Use

- •Gain understanding of existing conditions and how any changes over time
- •Screen for and identify problems and positive attributes

Quality Needed

- •Low to medium rigor
- Variety of study designs is acceptable
- •QAPP desirable

Tier C: Community and/or Watershed Level Quality Needed

Assessment

Data Users

- •Local decisionmakers
- Watershed association
- Environmental organizations
- Possibly DEP

Data Use

- •Assess current conditions
- Track trends
- Source track down of Nonpoint source pollution

- •Medium level of rigor
- Data needs to reliably detect changes over time and space
- Study design is focused on pollution sources
- •QAPP required

Tier D: Indicators (visual and biological assessments, and water quality)

Data Users

- •NJDEP
- •Local decisionmakers
- Watershed associations
- Environmental organizations

Data Use

- •Assess current conditions and impairments
- •Supplement agency data collection
- •Research
- •Evaluate best management practices (BMP) measures

Quality Needed

- Medium to high level of rigor
- •Study design and methods need to be equivalent and recognized by agencies using data
- Training required
- •QAPP required

Potential Uses for Watershed Watch Volunteer Data

- Education
- Problem Identification
- Local Decisions
- •Research
- •NPS Assessment
- •Watershed Planning/Open Space acquisition
- •Identification of "action now" projects
- •Monitoring the success/failure of restoration projects

Who Will Use the Data in the NJDEP?

- •Watershed Area Managers
- •Water Assessment Team
- Modeling Team
- •NPS Program
- •319 Program
- •TMDL Program
- •Other Programs or Divisions within the DEP which need supplemental data

Addressing Data Quality Issues

- •The Program or Division will need to review and approve the QAPP of the monitoring group
- •The Water Quality Collection Methods will be checked and audited by the Office of Quality Assurance and the volunteer coordinator
- •The program will continue to work closely with Fresh Water and Biological Monitoring

Addressing Data Quality Issues (cont.)

- •The volunteer coordinator will work closely with the volunteers to insure data quality
- •Trainings and recertification trainings will be offered annually
- •QAPPs will be updated and modified as needed

What's Been going On?

- Internal Advisory Committee
- External Advisory Committee
- Protocol Assessment
- QAPP Collection & Assessment
- Survey
- Volunteer Monitoring Summit
- Monitoring Manual

Internal Advisory Committee

- Fresh Water and Biological Monitoring
- Division of Science and Research
- Division of Watershed Mgt & each Program within the Division
- Office of Quality Assurance
- ■EPA Region 2, Volunteer Coordinator and Quality Assurance office

External Advisory Committee

- NGO, Volunteer Monitoring Coordinators
- Volunteers (paid and unpaid)
- ■EPA Region 2
- Office of Quality Assurance
- Bureau of Fresh Water and Biological Monitoring
- Meadowlands Environmental Research Ins.
- Rutgers Co-op Extension
- Delaware River Basis Commission
- Others as needed

The Future

- Annual Volunteer Monitoring Summit
- Training certifications and recertification for volunteers
- Close working relationship with current monitoring groups
- Working with NJ's universities to aid in lab analysis of collected samples
- Coordination among NJDEP data users and the Network